

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P1211418

Luminaire Tested: **ARCH4-270-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211418
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-270-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1045mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25495 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

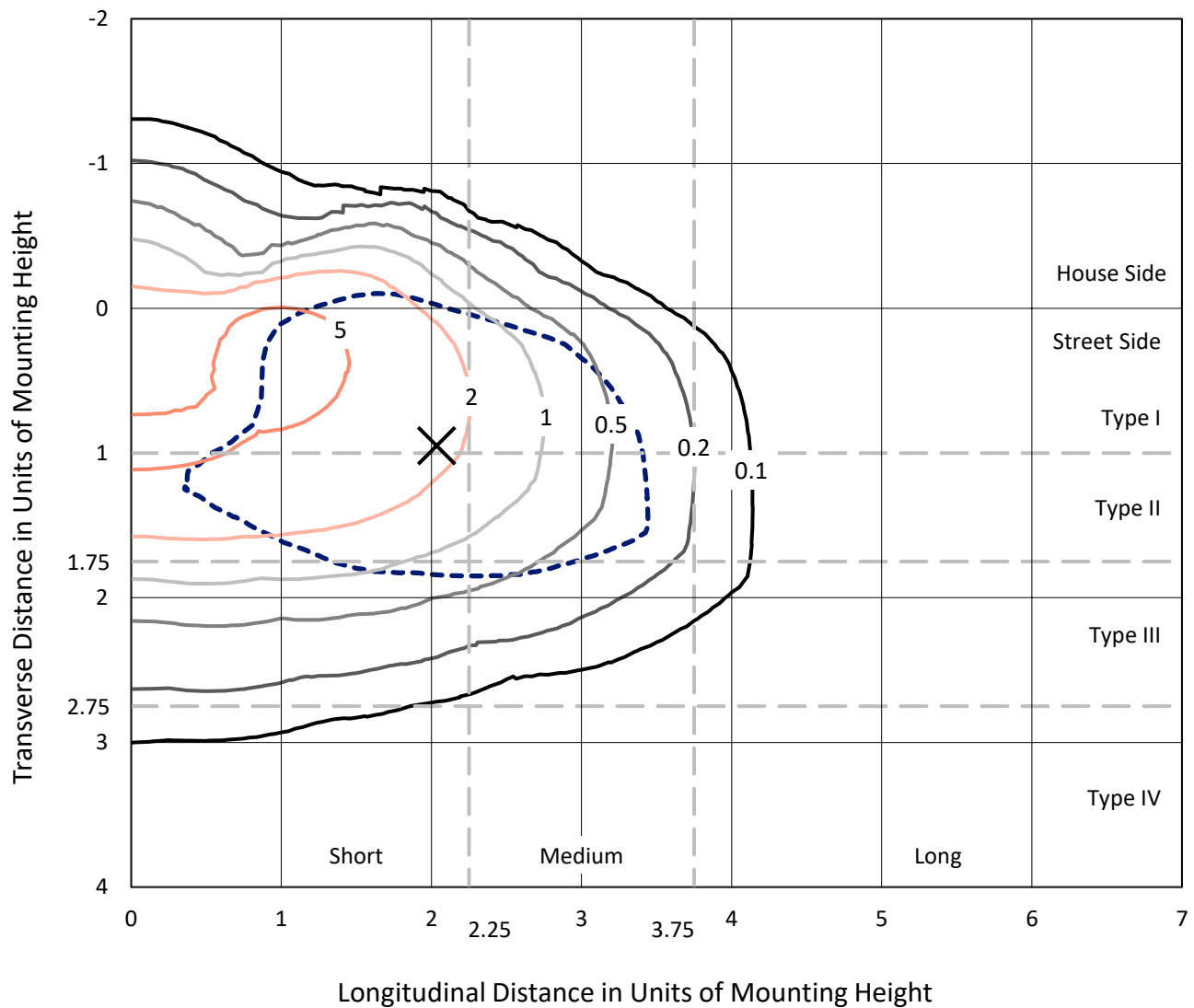


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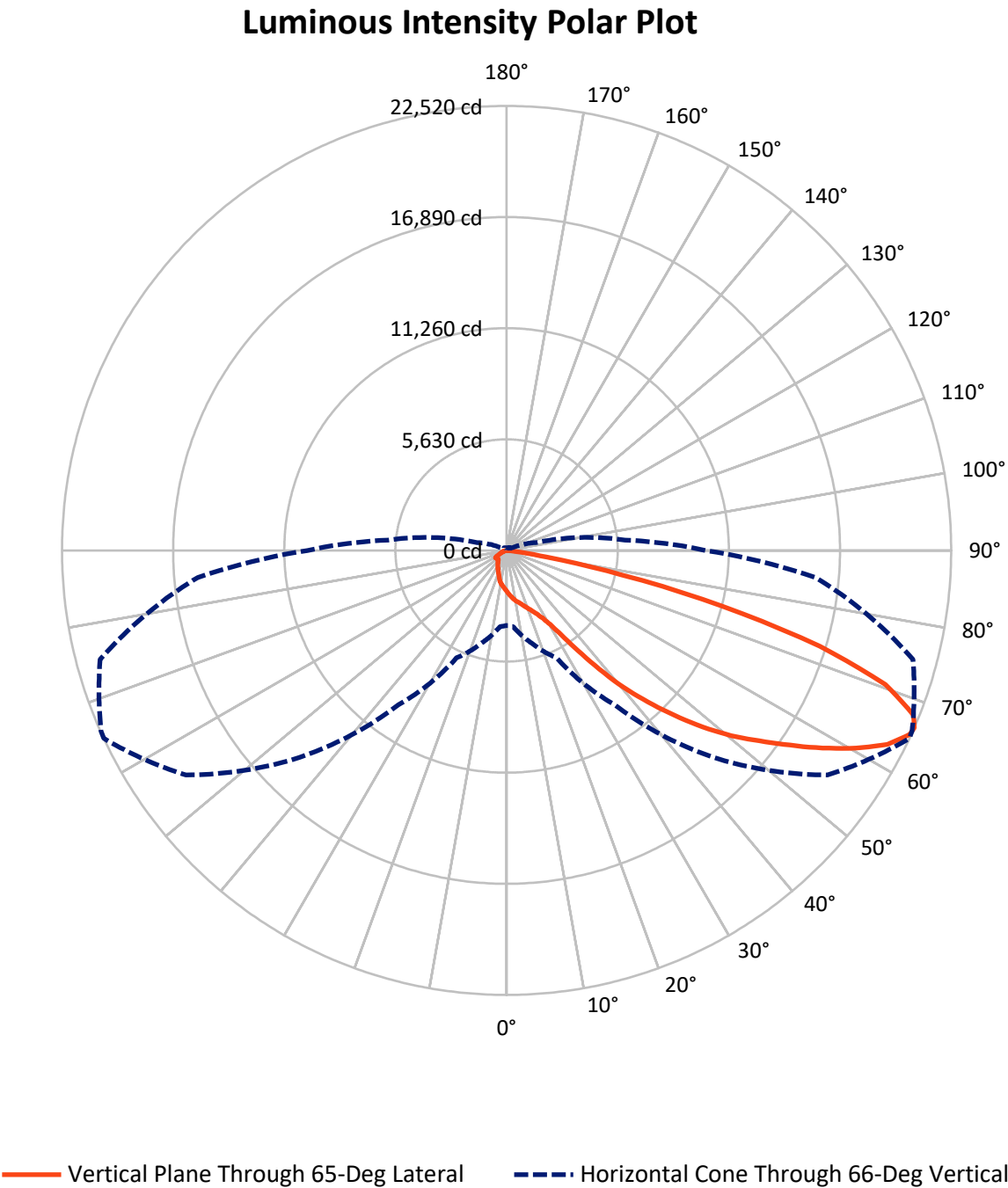
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
Type III - Short - N/A

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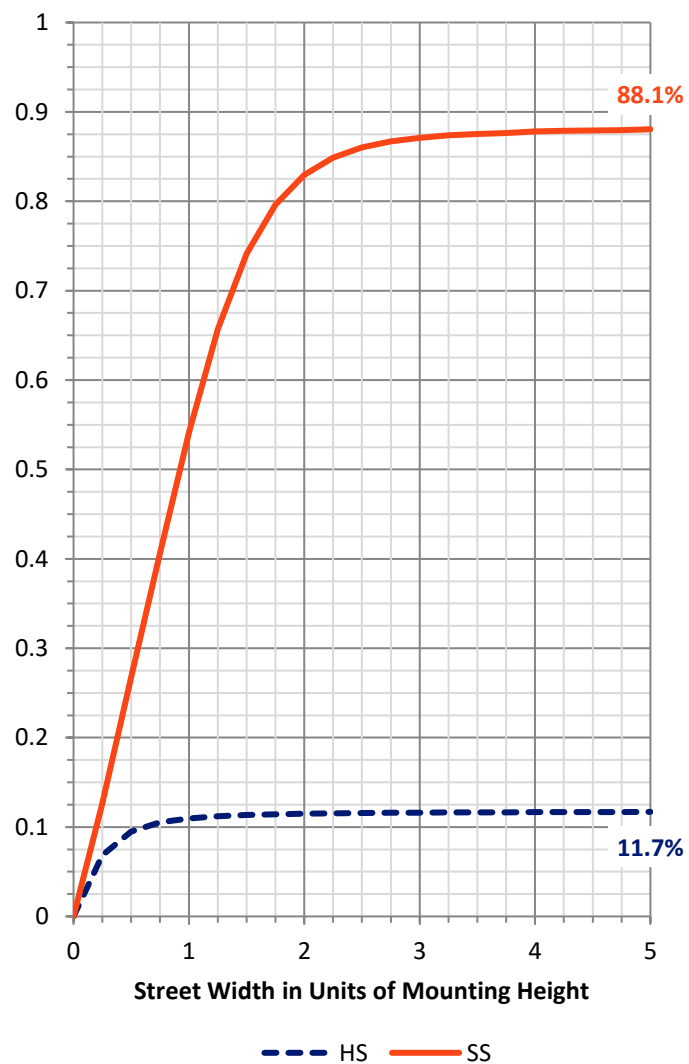
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3008.9	0.0	3008.9
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	22486.1	0.0	22486.1
	% Fixture	88.2	0.0	88.2
Total	Lumens	25495.0	0.0	25495.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.9	0.8
10°-20°	582.9	2.3
20°-30°	1067.0	4.2
30°-40°	2168.0	8.5
40°-50°	4578.2	18.0
50°-60°	7038.2	27.6
60°-70°	7084.4	27.8
70°-80°	2647.1	10.4
80°-90°	132.2	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	25495.0	100.0
0°-180°	25495.0	100.0

Coefficient of Utilization



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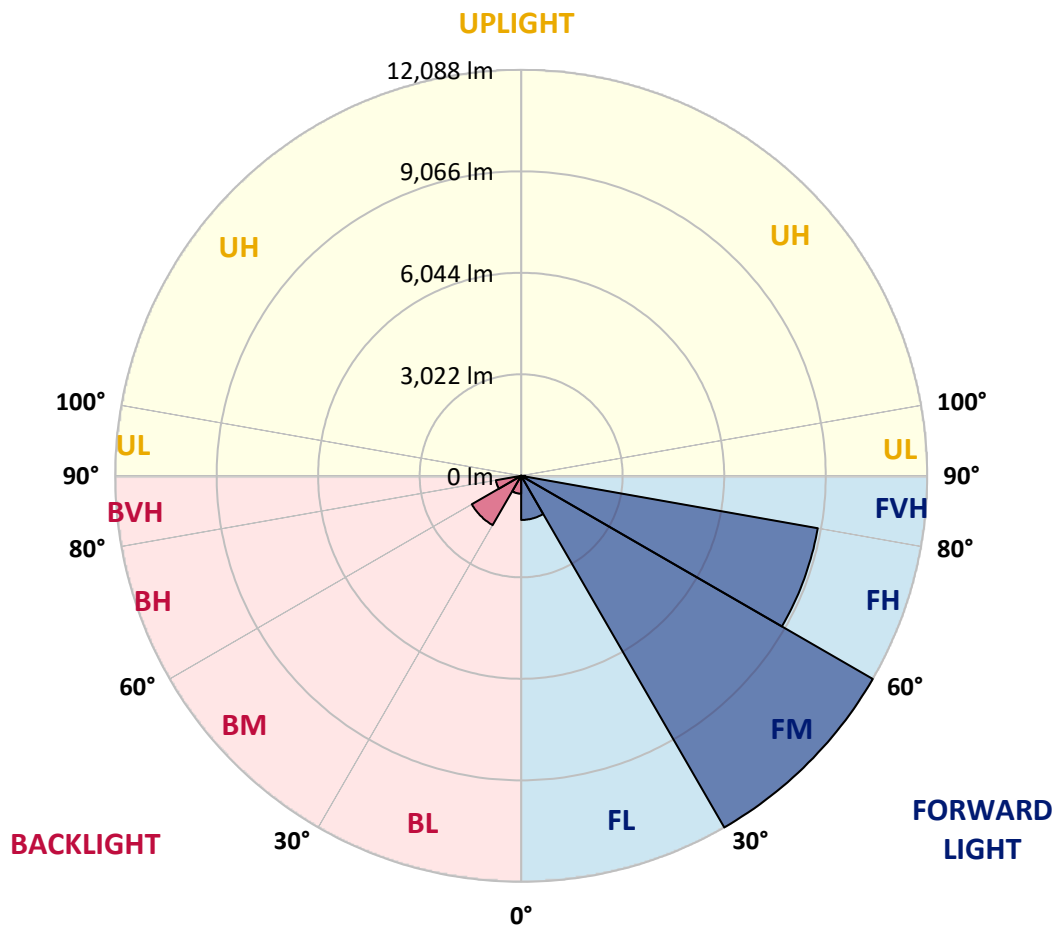
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1314.2	5.2			
FM	(30°-60°)	12087.9	47.4			
FH	(60°-80°)	8967.2	35.2			G4/12000
FVH	(80°-90°)	116.7	0.5			G2/225
BL	(0°-30°)	532.6	2.1	B2/1000		
BM	(30°-60°)	1696.5	6.7	B2/2500		
BH	(60°-80°)	764.4	3.0	B2/1000		G2/1000
BVH	(80°-90°)	15.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2077.1	2077.1	2077.1	2077.1	2077.1	2077.1	2077.1	2077.1	2077.1	2077.1	2077.1
2.5°	2368.6	2373.2	2363.9	2345.4	2326.9	2303.8	2266.8	2206.7	2197.4	2155.8	2109.5
5°	2530.5	2539.7	2525.9	2521.2	2512.0	2479.6	2428.7	2340.8	2331.6	2248.3	2141.9
7.5°	2586.0	2599.9	2590.6	2590.6	2590.6	2576.7	2553.6	2475.0	2461.1	2354.7	2192.8
10°	2627.6	2636.9	2632.3	2650.8	2664.6	2655.4	2641.5	2595.2	2581.4	2475.0	2262.2
12.5°	2692.4	2697.0	2701.7	2710.9	2734.0	2743.3	2738.7	2697.0	2687.8	2613.8	2350.1
15°	2752.5	2752.5	2757.2	2798.8	2831.2	2849.7	2854.3	2821.9	2812.7	2752.5	2461.1
17.5°	2808.1	2812.7	2826.6	2872.8	2928.3	2965.3	2988.5	2974.6	2960.7	2914.5	2590.6
20°	2891.3	2900.6	2914.5	2979.2	3034.7	3094.9	3141.1	3136.5	3131.9	3099.5	2743.3
22.5°	3034.7	3044.0	3067.1	3127.3	3182.8	3256.8	3335.4	3330.8	3316.9	3293.8	2923.7
25°	3252.2	3252.2	3266.0	3316.9	3386.3	3474.2	3548.2	3562.1	3548.2	3534.4	3150.4
27.5°	3525.1	3529.7	3529.7	3585.2	3650.0	3761.0	3853.6	3867.4	3867.4	3853.6	3455.7
30°	3904.4	3890.6	3881.3	3927.6	3997.0	4158.9	4320.8	4348.5	4334.7	4357.8	3885.9
32.5°	4556.7	4533.6	4454.9	4464.2	4505.8	4727.9	5000.8	5098.0	5093.4	5135.0	4579.9
35°	5458.8	5412.6	5296.9	5199.8	5195.1	5435.7	5852.0	6217.5	6212.9	6356.3	5634.6
37.5°	6476.6	6536.7	6319.3	6152.7	6101.8	6291.5	6828.1	7619.2	7660.8	7910.7	7017.8
40°	7836.6	7873.6	7596.1	7360.1	7119.6	7189.0	7896.8	9127.3	9201.3	9478.9	8401.0
42.5°	9020.9	9057.9	8896.0	8609.2	8303.9	8174.3	8974.7	10496.7	10556.8	10940.8	9825.9
45°	9825.9	9853.6	9909.1	9936.9	9589.9	9321.6	10293.1	11903.0	11977.0	12421.1	11218.3
47.5°	10455.0	10478.1	10589.2	10866.7	10797.4	10584.5	11634.7	13364.8	13383.3	13878.3	12573.8
50°	10746.5	10802.0	11074.9	11500.5	11805.8	11866.0	13091.9	14748.1	14798.9	15270.8	13855.2
52.5°	10422.6	10441.1	11130.4	11930.7	12546.0	13156.7	14553.8	16029.5	16177.5	16529.1	15007.1
55°	9330.9	9465.0	10510.5	11916.9	13128.9	14382.6	16117.4	17412.7	17546.9	17768.9	16020.2
57.5°	8063.3	8211.4	9483.5	11320.1	13378.7	15516.0	17565.4	18883.8	18976.3	19036.5	16950.1
60°	6966.9	7105.7	8414.9	10177.5	13128.9	16316.3	18911.6	20345.6	20424.3	20262.4	17417.3
62.5°	5620.7	5759.5	7078.0	8664.7	12148.2	16478.2	19910.8	21645.6	21678.0	21238.5	17130.5
65°	4237.5	4330.0	5431.1	6791.1	10431.9	15617.8	20137.5	22455.2	22422.8	21520.7	16270.0
66°	3798.0	3876.7	4848.2	6004.7	9539.0	14831.3	19832.2	22519.9	22487.5	21312.5	15705.7
67.5°	3275.3	3298.4	4098.7	4912.9	7980.0	13161.3	18902.3	22223.9	22251.6	20738.9	14674.0
70°	2558.2	2553.6	3016.2	3418.7	5449.6	9363.3	15765.8	20359.5	20493.7	18573.8	12513.6
72.5°	1637.6	1582.1	1850.4	2091.0	3173.5	5435.7	11495.9	16593.9	16820.6	14590.8	9321.6
75°	976.1	920.6	985.4	1045.5	1522.0	2613.8	6758.8	11292.3	11509.8	9354.0	5546.7
77.5°	730.9	707.8	712.4	661.5	675.4	980.7	3085.6	5967.7	6125.0	3830.4	2104.9
80°	559.8	499.6	467.2	490.4	444.1	388.6	1147.3	2054.0	2151.1	906.7	439.5
82.5°	374.7	323.8	300.7	328.5	282.2	217.4	277.6	397.8	388.6	245.2	171.2
85°	194.3	166.5	166.5	166.5	143.4	106.4	120.3	161.9	161.9	129.5	101.8
87.5°	55.5	50.9	60.1	55.5	41.6	41.6	46.3	55.5	55.5	50.9	46.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2077.1	2077.1	2077.1	2077.1	2077.1	2077.1	2077.1	2077.1	2077.1	2077.1	2077.1
2.5°	2072.5	2054.0	2003.1	1966.1	1929.1	1896.7	1859.7	1850.4	1831.9	1836.6	1827.3
5°	2086.4	2035.5	1947.6	1864.3	1799.6	1744.0	1674.7	1646.9	1609.9	1596.0	1586.8
7.5°	2104.9	2030.9	1901.3	1785.7	1674.7	1563.6	1452.6	1387.8	1346.2	1327.7	1313.8
10°	2146.5	2049.4	1878.2	1697.8	1508.1	1350.8	1239.8	1193.5	1165.8	1161.2	1156.5
12.5°	2202.0	2077.1	1855.1	1586.8	1336.9	1188.9	1119.5	1105.6	1101.0	1101.0	1096.4
15°	2285.3	2123.4	1818.1	1457.2	1202.8	1101.0	1068.6	1045.5	1036.2	1036.2	1036.2
17.5°	2368.6	2178.9	1762.5	1323.1	1110.3	1045.5	1013.1	999.2	990.0	994.6	990.0
20°	2475.0	2243.7	1688.5	1207.4	1050.1	999.2	966.9	953.0	948.4	948.4	948.4
22.5°	2595.2	2317.7	1596.0	1119.5	999.2	953.0	920.6	906.7	897.5	902.1	902.1
25°	2757.2	2410.2	1498.9	1031.6	948.4	906.7	869.7	851.2	851.2	855.8	860.5
27.5°	2965.3	2521.2	1401.7	976.1	902.1	860.5	818.8	800.3	804.9	814.2	814.2
30°	3270.7	2673.9	1304.6	916.0	851.2	804.9	767.9	749.4	758.7	777.2	777.2
32.5°	3705.5	2923.7	1221.3	846.6	777.2	726.3	689.3	675.4	698.5	735.6	735.6
35°	4482.7	3381.7	1170.4	777.2	698.5	638.4	592.1	578.3	610.6	656.9	656.9
37.5°	5523.6	4117.2	1188.9	717.0	633.8	564.4	513.5	495.0	518.1	559.8	573.6
40°	6684.7	5005.5	1350.8	666.2	573.6	504.2	453.4	434.9	448.7	467.2	471.9
42.5°	7845.9	5949.2	1656.1	629.2	527.4	453.4	407.1	393.2	402.5	407.1	411.7
45°	9002.4	6883.7	2040.1	606.0	485.7	411.7	365.5	365.5	370.1	370.1	370.1
47.5°	10098.8	7795.0	2442.6	601.4	448.7	370.1	333.1	337.7	337.7	342.3	342.3
50°	11135.1	8609.2	2849.7	615.3	416.4	333.1	305.3	305.3	305.3	309.9	305.3
52.5°	12000.1	9321.6	3275.3	638.4	384.0	305.3	277.6	277.6	277.6	282.2	277.6
55°	12819.0	9969.3	3710.1	670.8	356.2	282.2	254.4	245.2	245.2	249.8	245.2
57.5°	13485.1	10399.5	4121.9	675.4	333.1	259.1	235.9	222.1	222.1	222.1	222.1
60°	13512.9	10149.7	4242.1	592.1	305.3	235.9	212.8	194.3	198.9	198.9	198.9
62.5°	12629.3	8835.9	3409.4	444.1	272.9	212.8	194.3	175.8	175.8	175.8	175.8
65°	10894.5	6874.4	1998.5	351.6	235.9	189.7	171.2	157.3	157.3	157.3	152.7
66°	10080.3	6027.8	1531.2	319.2	222.1	185.0	166.5	152.7	148.0	143.4	143.4
67.5°	8752.6	4764.9	957.6	282.2	203.5	171.2	152.7	138.8	134.2	129.5	129.5
70°	6592.2	3025.5	467.2	217.4	175.8	148.0	134.2	120.3	115.7	111.0	106.4
72.5°	4626.1	1771.8	245.2	166.5	143.4	129.5	115.7	101.8	97.1	92.5	92.5
75°	2613.8	855.8	161.9	120.3	115.7	106.4	97.1	83.3	78.6	78.6	78.6
77.5°	990.0	296.1	111.0	87.9	92.5	83.3	69.4	69.4	64.8	69.4	64.8
80°	259.1	129.5	69.4	64.8	69.4	60.1	50.9	55.5	55.5	55.5	55.5
82.5°	138.8	74.0	41.6	46.3	41.6	41.6	32.4	37.0	41.6	37.0	41.6
85°	97.1	37.0	23.1	23.1	18.5	18.5	13.9	18.5	23.1	18.5	18.5
87.5°	50.9	13.9	13.9	13.9	13.9	9.3	4.6	0.0	4.6	4.6	4.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)